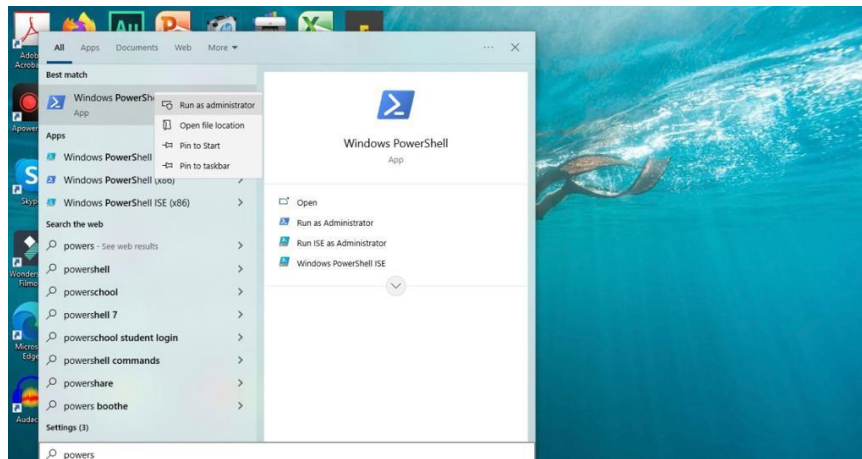


Nama : Salsabilla Faradisa
NIM : 20210801311

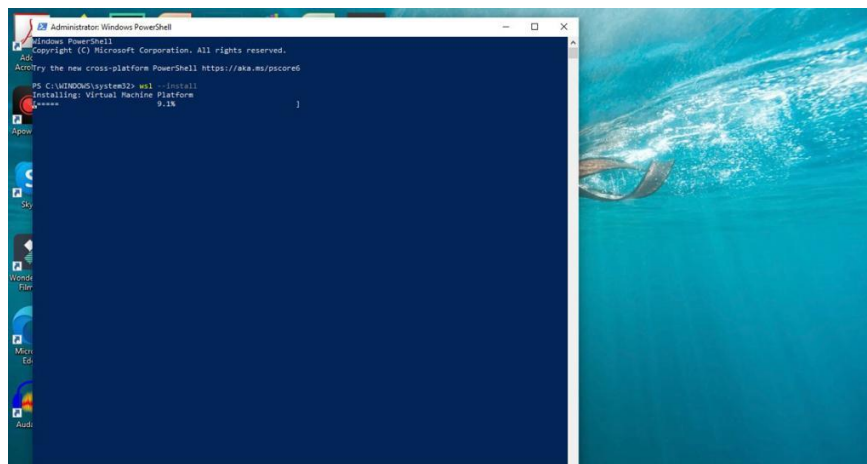
TUGAS SESI 1 **PBO**

DOKUMENTASI INSTALASI TOOLS

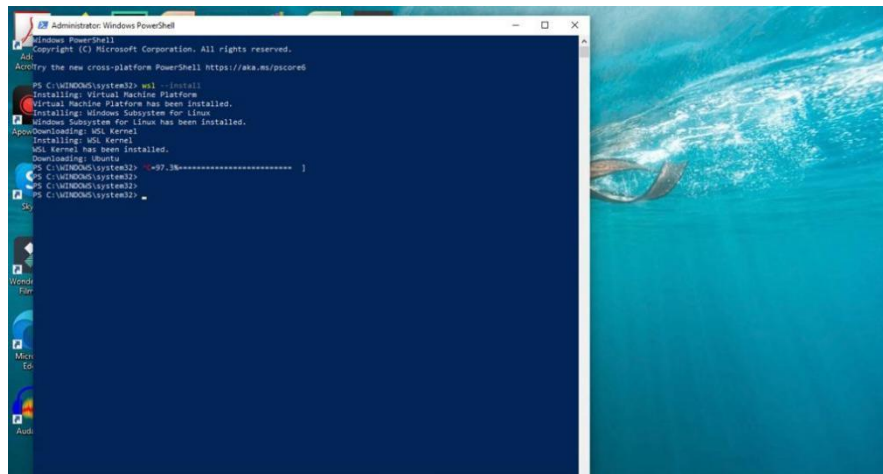
1) Buka Windows Powershell dengan klik “run as administrator”



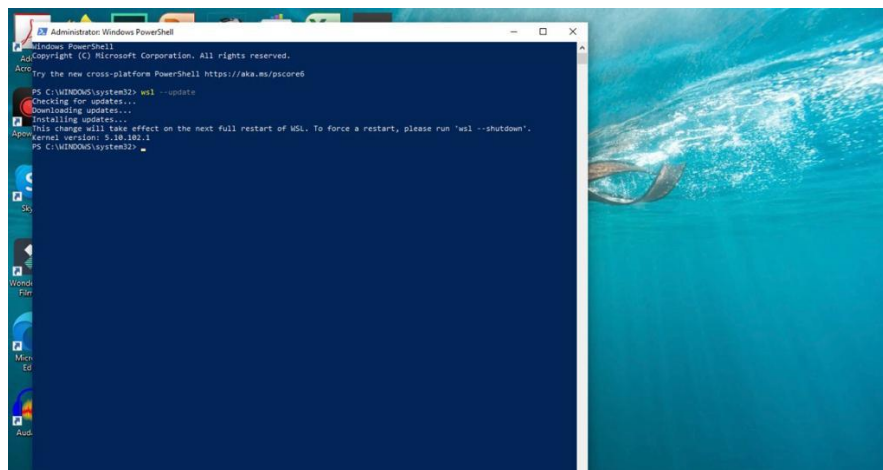
2) Ketik “install --wsl”, lalu enter dan tunggu instalasi sedang diproses



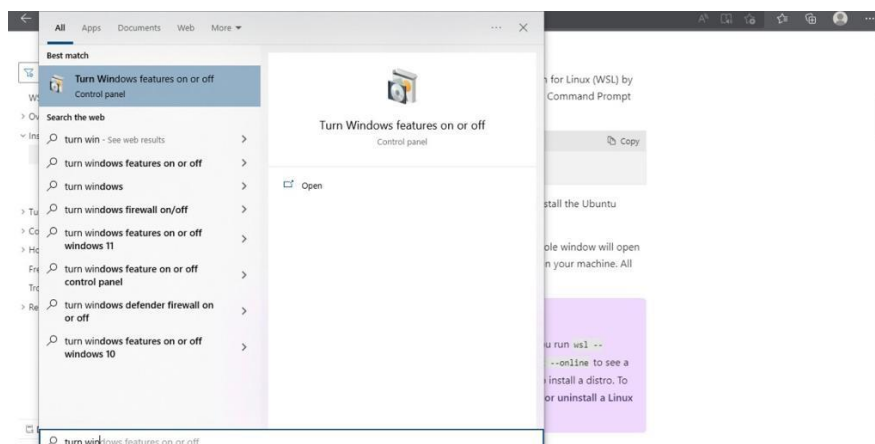
3) Tekan ctrl+c kemudian enter 2x. Selanjutnya restart laptop



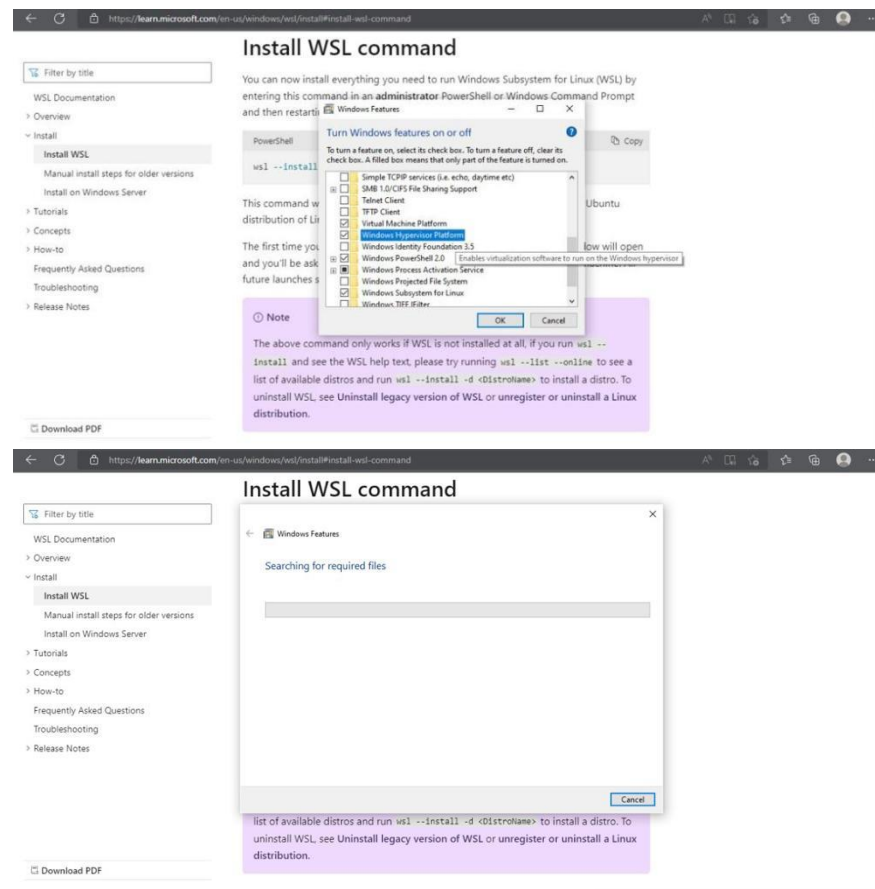
4) Cek windows update dengan ketik “wsl --update” di Windows Poweshell



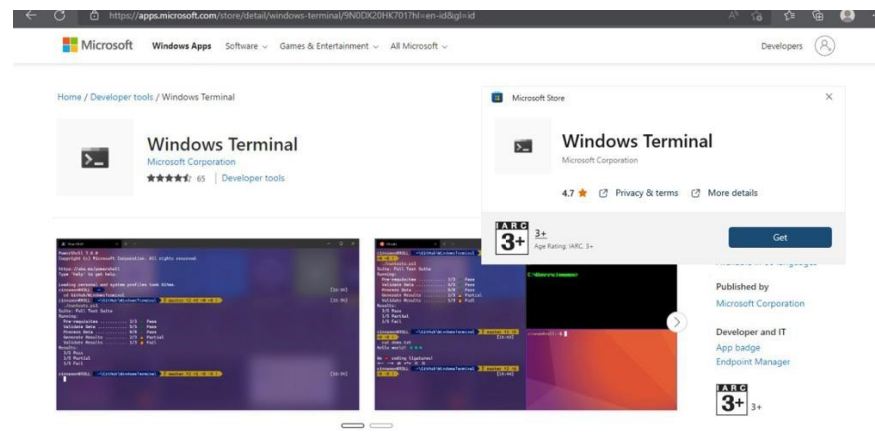
5) Buka Turn Windows features on or off



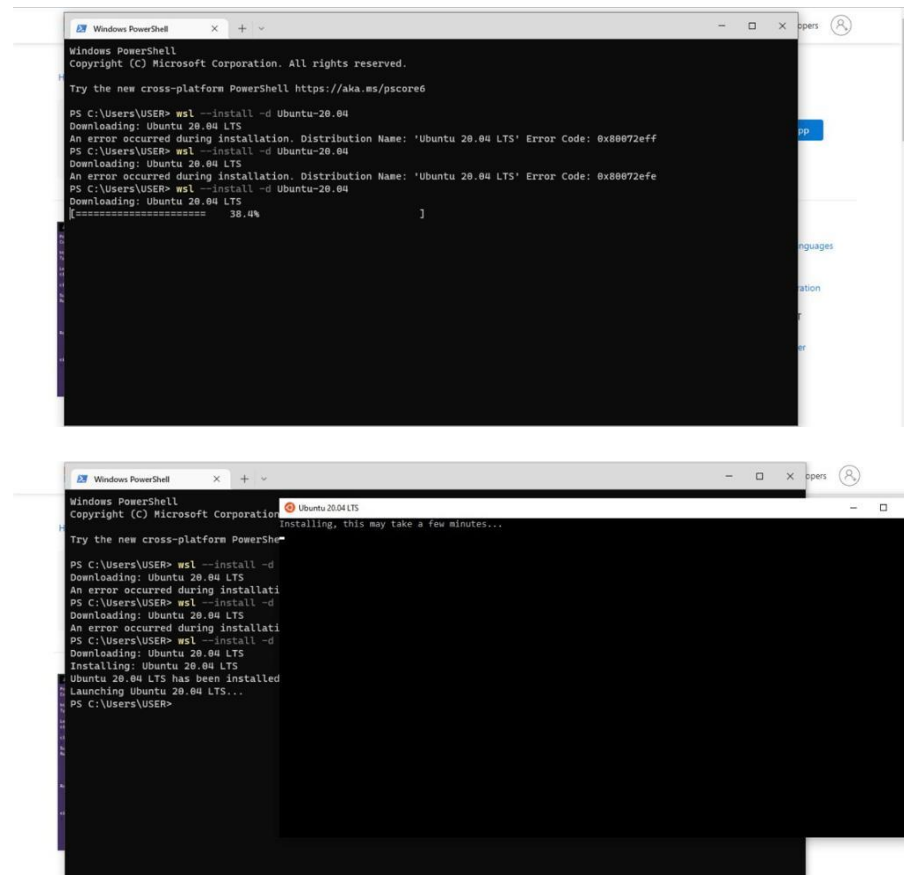
6) Ceklis **Windows Hypervisor Platform**, lalu klik ok. Tunggu hingga selesai



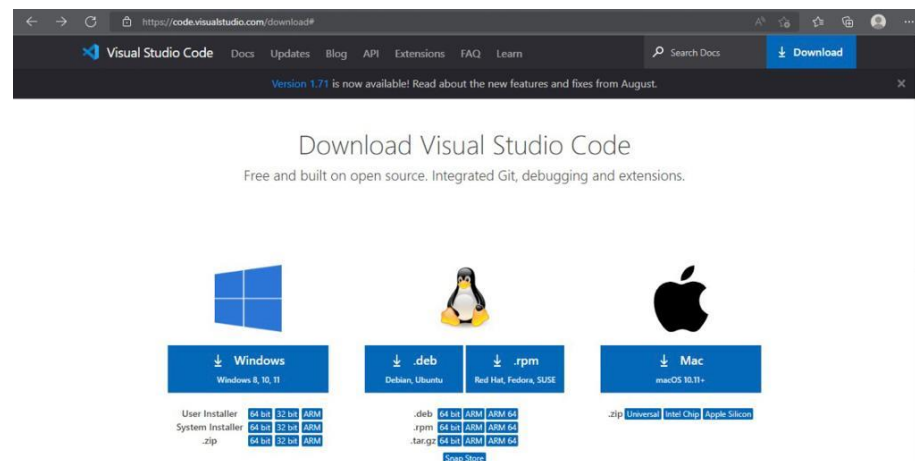
7) Install **Windows Terminal**, lalu open

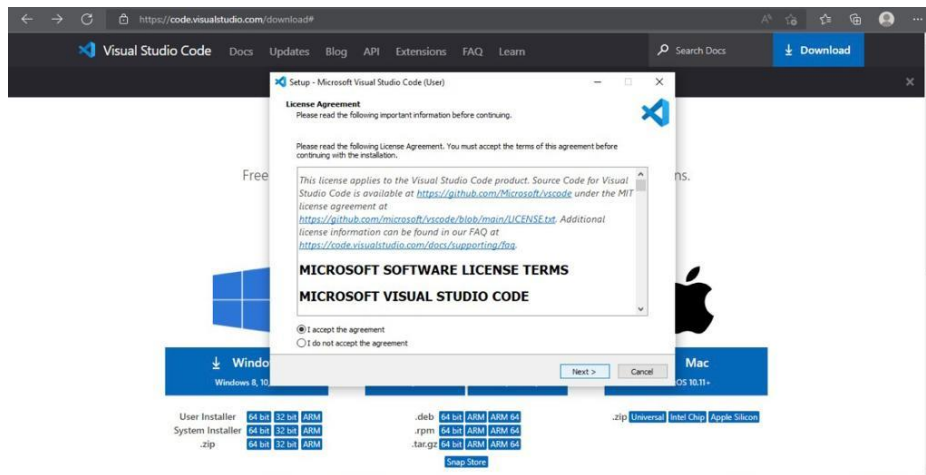


8) Install ubuntu versi 20.04 pada windows terminal dengan perintah “wsl -install -d Ubuntu-20.04”. (Pastikan jaringan stabil karena yang punya saya sempat gagal install). Selanjutnya, tunggu beberapa menit

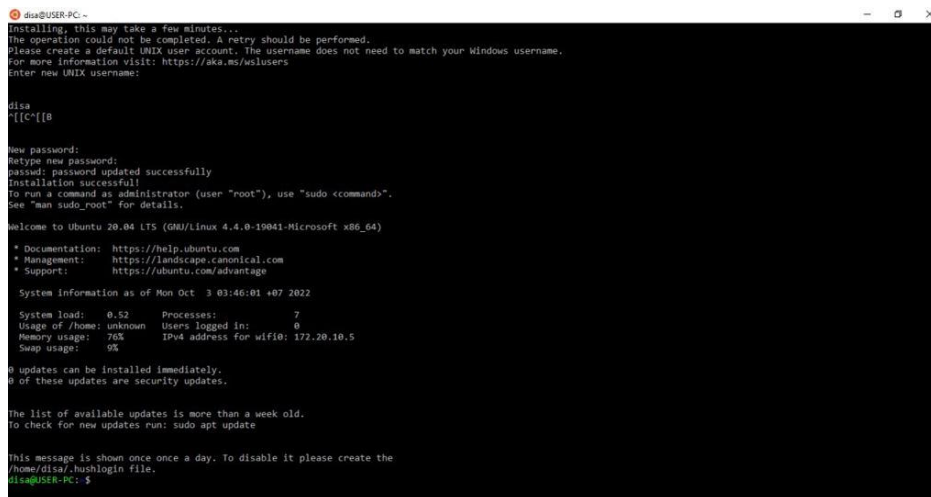


9) Selagi menunggu ubuntu, lakukan install **Visual Studio Code**

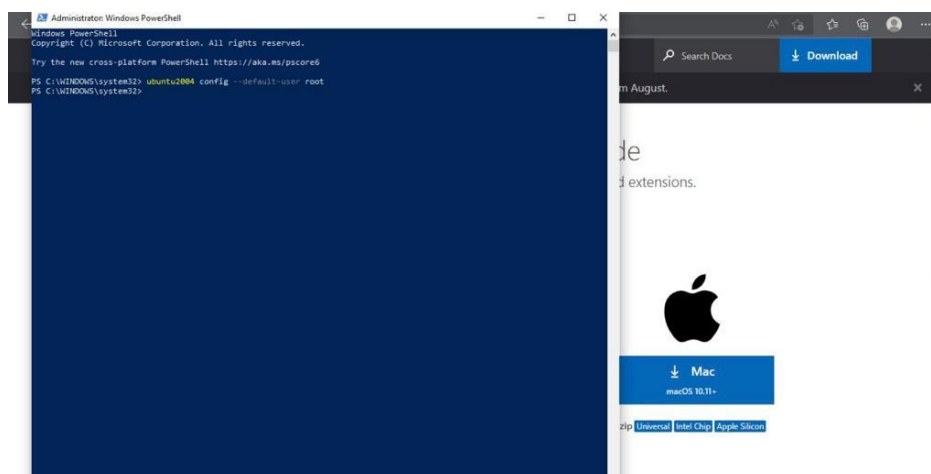




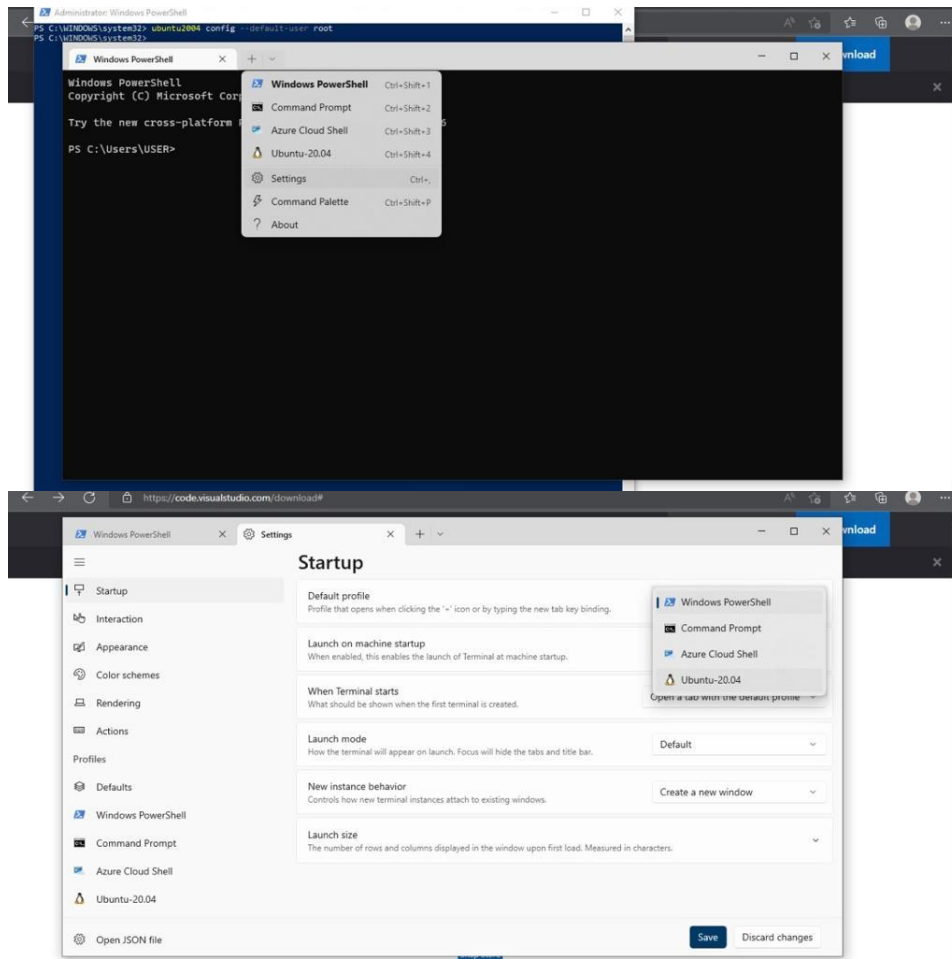
10) Setelah **Ubuntu** terinstalasi, masukkan username dan password. Lalu lanjut ke tahap selanjutnya



11) Buka kembali **Windows Powershell** dan lakukan konfigurasi **Ubuntu** dengan perintah “ubuntu2004 config --default-user root”



12) Buka **Windows Terminal**. Lalu ganti default tab menjadi **Ubuntu 20.04** dengan klik settings, lalu pilih “Ubunru-20.04”



13) Buka **Ubuntu** pada terminal. Lalu ketik “apt update”. Tunggu hingga selesai. Lalu cari omhyzh dan copy command curl, ketik “install zsh”. Ketik y pada pertanyaan Y/N.

```

root@USER-PC: /mnt/c/Users/
Get:37 http://archive.ubuntu.com/ubuntu focal-backports/multiverse amd64 c-n-f Metadata [116 B]
Get:38 http://security.ubuntu.com/ubuntu focal-security/restricted Translation-en [171 kB]
Get:39 http://security.ubuntu.com/ubuntu focal-security/restricted amd64 c-n-f Metadata [508 B]
Get:40 http://security.ubuntu.com/ubuntu focal-security/universe amd64 Packages [730 kB]
Get:41 http://security.ubuntu.com/ubuntu focal-security/universe Translation-en [135 kB]
Get:42 http://security.ubuntu.com/ubuntu focal-security/universe amd64 c-n-f Metadata [15.1 kB]
Get:43 http://security.ubuntu.com/ubuntu focal-security/multiverse amd64 Packages [22.2 kB]
100% [Waiting for headers] 205 kB/s 0s*Get:44 http://security.ubuntu.com/ubuntu focal-security/multiverse Translation-en [5376 B]
Get:45 http://security.ubuntu.com/ubuntu focal-security/multiverse amd64 c-n-f Metadata [508 B]
Fetched 26.1 MB in 38s (694 kB/s)
Reading package lists... Done
Building dependency tree
Reading state information... Done
281 packages can be upgraded. Run 'apt list --upgradable' to see them.
root@USER-PC: /mnt/c/Users/USER/Desktop# apt install zsh
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
  zsh-common
Suggested packages:
  zsh-doc
The following NEW packages will be installed:
  zsh zsh-common
0 upgraded, 2 newly installed, 0 to remove and 281 not upgraded.
Need to get 4450 kB of archives.
After this operation, 18.0 MB of additional disk space will be used.
Do you want to continue? [Y/n]

```



```
root@USER-PC: /mnt/c/Users/...
zsh zsh-common
0 upgraded, 2 newly installed, 0 to remove and 281 not upgraded.
Need to
After this operation, 10.5 MB of additional space will be used.
Do you want to continue? [Y/n] y
Get:1 ht * [new branch] master -> origin/master
Get:2 ht Updating files: 100% (951/951), done.
Fetched Branch 'master' set up to track remote branch 'master' from 'origin'.
Selectir Already on 'master'
(Reading /root
Preparin /root
Unpackin looking for an existing zsh config...
Using the OH My Zsh template file and adding it to ~/.zshrc.
Progress Time to change your default shell to zsh: [100%] [#####]
..... Do you want to change your default shell to zsh? [Y/n] y
Changing your shell to /usr/bin/zsh...
Progress Shell successfully changed to '/usr/bin/zsh'. [100%] [#####]
.....
Selectir
Preparin
Unpackin
Setting
Setting
Processi ....is now installed!
root@USE
~# : comm
root@USE Before you scream Oh My Zsh! look over the '.zshrc' file to select plugins, themes, and options.
h: comm
root@USE • Follow us on Twitter: @ohmyzsh
~# : comm • Join our Discord community: Discord server
root@USE • Get stickers, t-shirts, coffee mugs and more: Planet Argon Shop
```

14) Selanjutnya ketik “nano /root/.zshrc”. Lalu, ganti line ZSH_THEME="robbrussel" ke "agnoster" dan input ctrl+x -> y untuk memvalidasinya

```
~ nano /root/.zshrc

GNU nano 4.8 /root/.zshrc
# If you come from bash you might have to change your $PATH.
# export PATH=$HOME/bin:/usr/local/bin:$PATH

# Path to your oh-my-zsh installation.
export ZSH="$HOME/.oh-my-zsh"

# Set name of the theme to load --- if set to "random", it will
# load a random theme each time oh-my-zsh is loaded, in which case,
# to know which specific one was loaded, run: echo $RANDOM_THEME
# See https://github.com/ohmyzsh/ohmyzsh/wiki/Themes
ZSH_THEME="robbyrussell"

# Set list of themes to pick from when loading at random
# Setting this variable when ZSH_THEME=random will cause zsh to load
# a theme from this variable instead of looking in $ZSH/themes/
# If set to an empty array, this variable will have no effect.
# ZSH_THEME_RANDOM_CANDIDATES=( "robbyrussell" "agnoster" )

# Uncomment the following line to use case-sensitive completion.
# CASE_SENSITIVE="true"

# Uncomment the following line to use hyphen-insensitive completion.
# Case-sensitive completion must be off. _ and - will be interchangeable.
# HYPHEN_INSENSITIVE="true"

# Uncomment one of the following lines to change the auto-update behavior
# zstyle ':omz:update' mode disabled # disable automatic updates
# zstyle ':omz:update' mode auto # update automatically without asking

Get Help Write Out Where Is Cut Text Read 101 lines Justify Cur Pos M-U Undo M-A Mark Text M-J To Bracket
Exit Read File Replace Paste Text To Spell Go To Line M-E Redo M-G Copy Text M-Q Where Was
```

15) Ganti line baru dengan ketik “nano /root/.zshrc”, lalu “source /root/.zshrc”. Setelah itu paste git clone syntax highlighting yang didapat dari github. Selanjutnya masukkan git autosuggestion ke plugins

```
root@USER-PC:~# nano /root/.zshrc
root@USER-PC:~# source /root/.zshrc
root@USER-PC:~# git clone https://github.com/zsh-users/zsh-syntax-highlighting.git ${ZSH_CUSTOM:~/.oh-my-zsh/custom}/plugins/zsh-syntax-highlighting
Cloning into '/root/.oh-my-zsh/custom/plugins/zsh-syntax-highlighting'...
remote: Enumerating objects: 7026, done.
remote: Counting objects: 100% (113/113), done.
remote: Compressing objects: 100% (59/59), done.
remote: Total 7026 (delta 56), reused 83 (delta 48), pack-reused 6913
Receiving objects: 100% (7026/7026), 1.52 MiB | 2.64 MiB/s, done.
Resolving deltas: 100% (4730/4730), done.
root@USER-PC:~# git clone https://github.com/zsh-users/zsh-autosuggestions ${ZSH_CUSTOM:~/.oh-my-zsh/custom}/plugins/zsh-autosuggestions
Cloning into '/root/.oh-my-zsh/custom/plugins/zsh-autosuggestions'...
remote: Enumerating objects: 2435, done.
remote: Counting objects: 100% (50/50), done.
remote: Compressing objects: 100% (39/39), done.
remote: Total 2435 (delta 22), reused 29 (delta 10), pack-reused 2385
Receiving objects: 100% (2435/2435), 564.00 KiB | 839.00 KiB/s, done.
Resolving deltas: 100% (1553/1553), done.
root@USER-PC:~# nano /root/.zshrc

GNU nano 4.8 /root/.zshrc Modified
# Standard plugins can be found in $ZSH/plugins/
# Custom plugins may be added to $ZSH_CUSTOM/plugins/
# Example format: plugins=(rails git textmate ruby lighthouse)
# Add wisely, as too many plugins slow down shell startup.
plugins=(git zsh-autosuggestions zsh-syntax-highlighting)

source $ZSH/oh-my-zsh.sh

# User configuration

# export MANPATH="/usr/local/man:$MANPATH"

# You may need to manually set your language environment
# export LANG=en_US.UTF-8

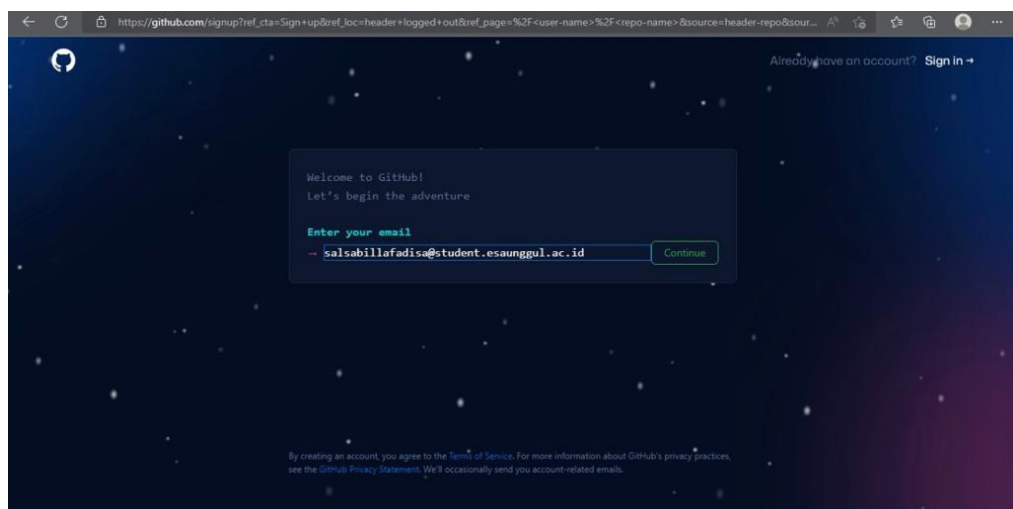
# Preferred editor for local and remote sessions
# if [[ -n $SSH_CONNECTION ]]; then
#   export EDITOR='vim'
# else
#   export EDITOR='mvim'
# fi

# Compilation flags
# export ARCHFLAGS="-arch x86_64"

# Set personal aliases, overriding those provided by oh-my-zsh libs,
# plugins, and themes. Aliases can be placed here, though oh-my-zsh
# users are encouraged to define aliases within the ZSH_CUSTOM folder.

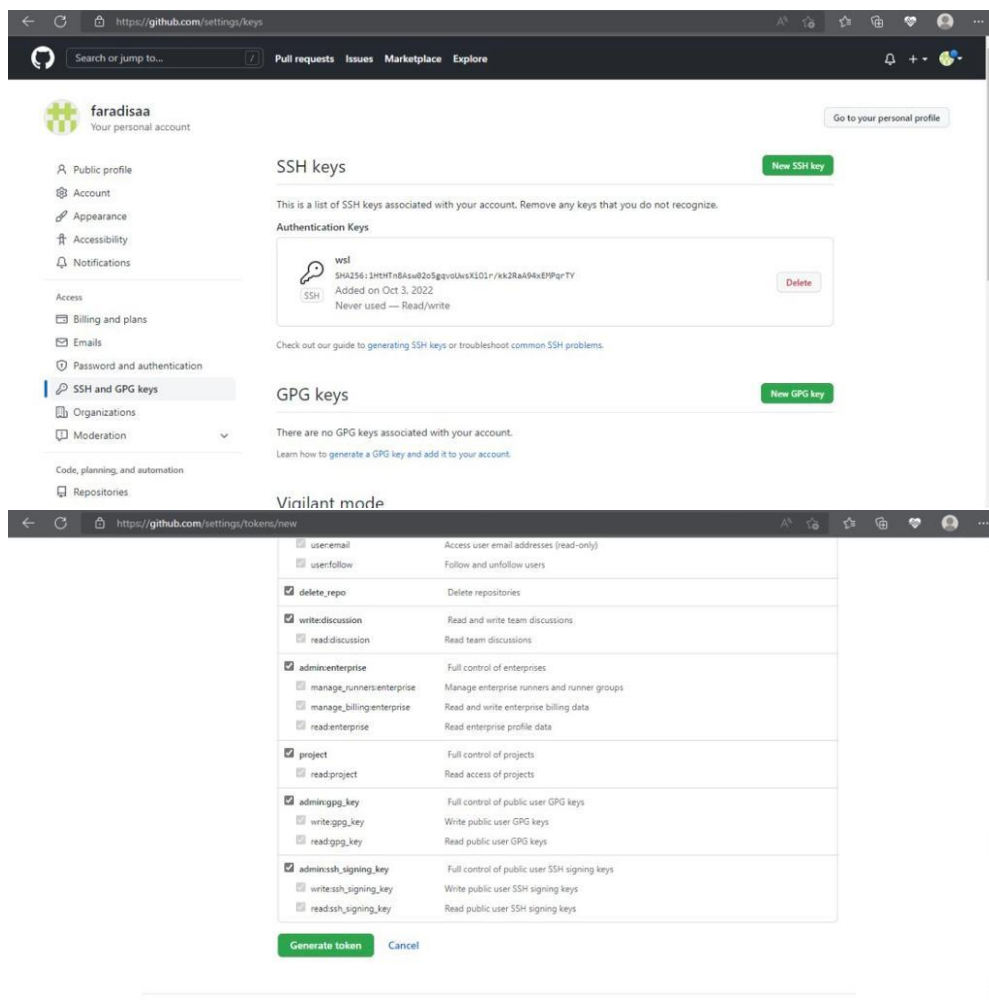
Save modified buffer?
[Yes]
[No] [Cancel]
```

16) Selanjutnya masuk ke akun github pribadi. Lalu masuk ke setting -> SSH and GPG keys -> new SSH key input "ssh-keygen" pada terminal dan kosongkan passphrase

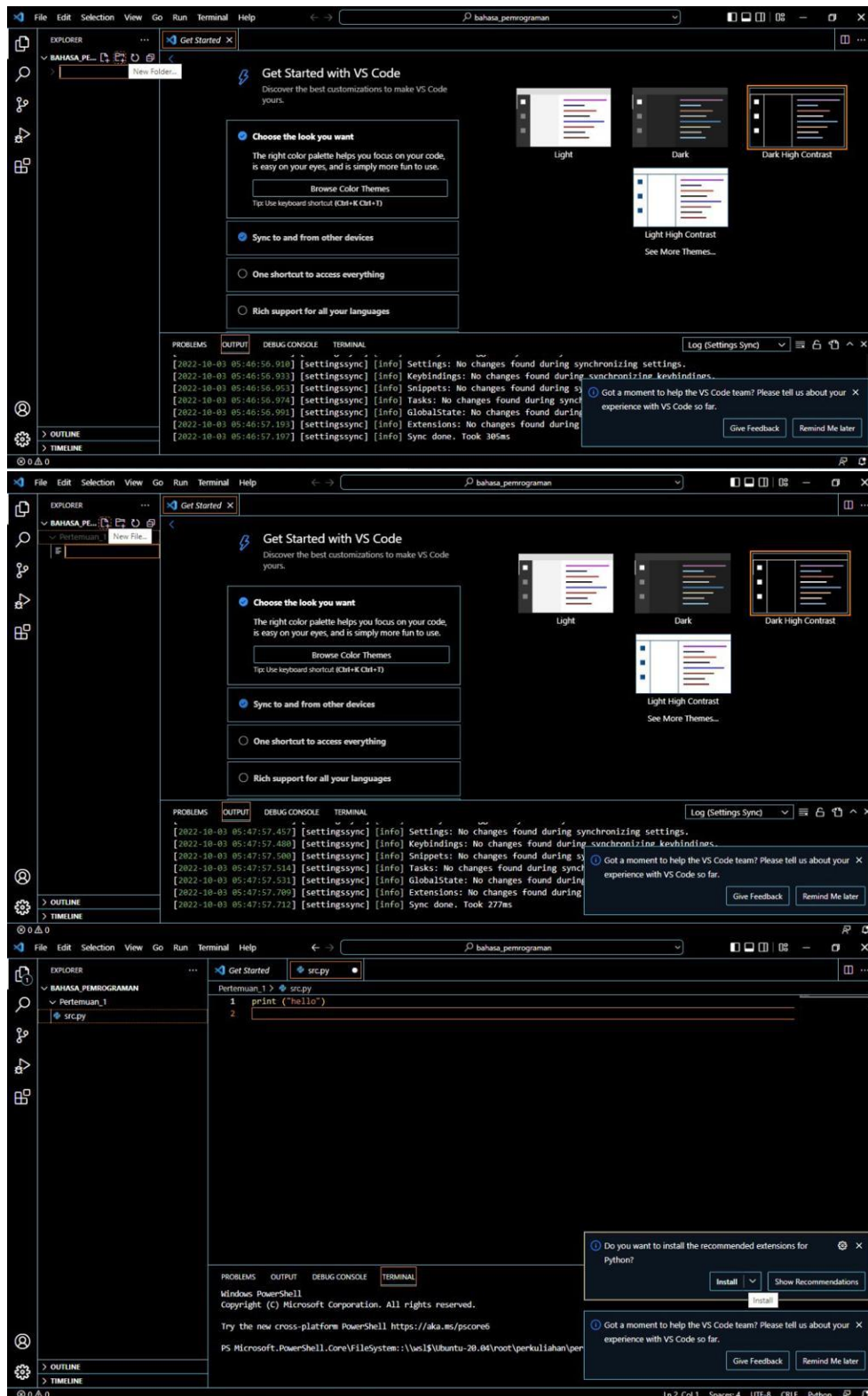



```
root@USER-PC:~# nano /root/.zshrc
root@USER-PC:~# source /root/.zshrc
root@USER-PC:~# nano /root/.zshrc
root@USER-PC:~# ssh-keygen
Generating public/private rsa key pair.
Enter file in which to save the key (/root/.ssh/id_rsa):
Created directory '/root/.ssh'.
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /root/.ssh/id_rsa
Your public key has been saved in /root/.ssh/id_rsa.pub
The key fingerprint is:
SHA256:1HtHtN8Asw2o5gqv0uXsXI01r/kk2RaA94xEHPqrTY root@USER-PC
The key's randomart image is:
+---[RSA 3072]---+
|.o.      B      |
|.o.    +.o.o    |
|.o.  +.o.o.+   |
|.o. +.S..o.o   |
|+O+.S..o.o    |
|*+@o.  .  .   |
|.oB=.  .  .   |
|.E+o         |
|..++         |
+---[SHA256]-----+
root@USER-PC:~# cat /root/.ssh/id_rsa.pub
ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAQGCYhTQTUj3ueTF6DF18gTnpo4Ld6Lj3M+ubndw9IcISiVwAoG70chy8RpuZIIH3dMzK34lRqpEEA7W+7oogtSZCM5NHT+53m7Dyn8StcG34E1
tbdnldG9ZyWHz6Z0pDSE5XrCbhrq2vCengz+6Iz3v3HC+670L45SvsmcSGr3rOfb3a8++xX0H/Y8vBRGOkXHqX5v4wB6htGzAeWmxk+onfYnPTMbyRDLq3/Mie/u4r1yEQ3oysk3LKRp/j4Fo
4qA++AiB3H9++qHPFybn8s0YuoMojuELBt/YTQ0bevsA0n4t21ZKoXlv18AaM202RT++PgbsNuijvtakrw9qz77AXv5G+epq3GzM4rg6sKKNiGa4EBEHZ1yvF8bmWBedSmlq3CmB3+NgLIYFDb
zBrK+gPdwkPKL7QJ1I17vZj06XiF6k7XgtI7vLe1k3k20s2021f70InWtwf1HkhbrxULRA4ui1YnQvyb73aDB0oq2D004bk6j0c6hQifCs8= root@USER-PC
root@USER-PC:~#
```

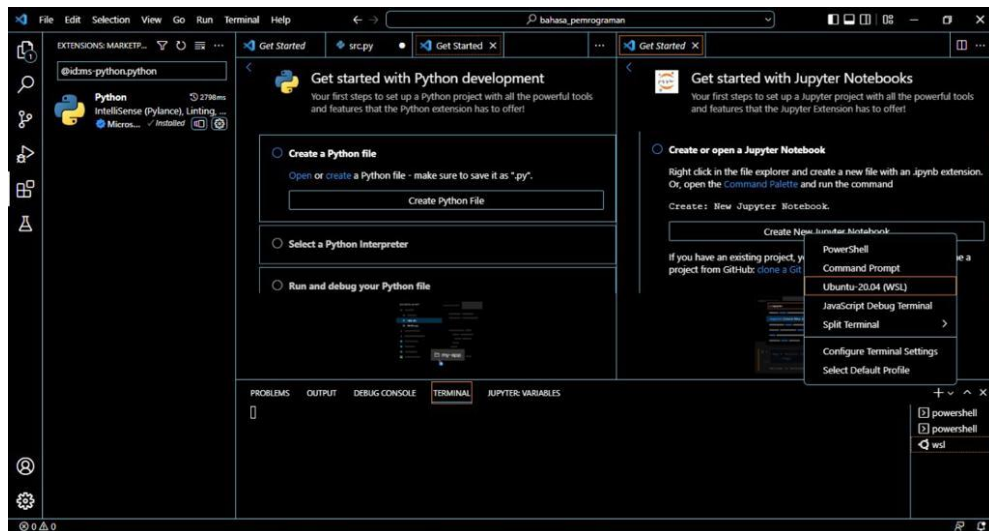
17) Input `cat /root/.ssh/id_rsa.pub` copy hasil ke key di tab github dan isi tittle dengan "wsl" konfirmasi untuk mendapat SSH key



18) Kembali ke terminal, ketik "mkdir perkuliahan" -> "cd perkuliahan" dan "mkdir bahasa_pemrograman" -> "cd bahasa_pemrograman" lalu input "code".



20) Install python



21) open terminal, pilih ubuntu, input "cd pertemuan_1" lalu "python3" -> "cd .." input kembali "git init" -> "git add ." -> "git commit -m "firstcommit"" "git branch -M main" -> ketikkan "curl -u 'usergithubmu' https://api.github.com/user/repos -d '{"name":"namareponya","private":false}" lalu enter passwordmu. Lalu input "git remote add origin git@github.com:USERGITHUBMU/NAMAREPO.git lalu input lagi "git push -u origin main" -> yes

